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Published on SBIR.gov (<https://www.sbir.gov>)

[1. AF11-BT04: 3-D nondestructive imaging techniques for mesoscale damage analysis of composite materials](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Weapons OBJECTIVE: Develop techniques for detecting and modeling the evolution of damage in composite materials such as plastic bonded explosives or concretes using nondestructive means. DESCRIPTION: In hard target penetration, the onboard energetic material may be subjected to severe environments of both pressure and shear loading. Dama ...

STTR Department of Defense

[2. A11a-T015: A Priori Error-Controlled Simulations of Electromagnetic Phenomena for HPC](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objectives of this STTR are to investigate numerical methods for predictably-accurate treatment of boundary conditions in electromagnetic and other wave-dominated phenomena, and to develop algorithms and computer software that can be implemented for military and commercial simulation applications. DESCRIPTION: High fidelity modeling of electromagnetic phenomena has become incre ...

STTR Army

[3. T6.02: Active Debris Removal Technologies](#)

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

After more than 50 years of human space activities, orbital debris has become a problem in the near-Earth environment. The total mass of debris in orbit is close to 6000 tons at present. The U.S. Space Surveillance Network is currently tracking more than 22,000 objects larger than about 10 cm. Additional optical and radar data indicate that there are approximately 500,000 debris larger than 1 cm, and more than 100 million debris larger than 1 mm in the environment.

STTR National Aeronautics and Space Administration

[4. A11a-T032: Advanced Autonomy and Operator Interfaces for Complex Robotic Systems](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective of this topic is to develop autonomous capability for robots with human-like dexterity to perform complex tasks for medical applications. DESCRIPTION: Current low-dimensional robots are directed by human operators using operator control units (OCUs) such as hand controllers that send a continuous stream of commands to the end-effector to follow a desired trajectory. Thi ...

STTR Army

5. [N11A-T014: Advanced Flame Resistant Resin System for Carbon Fiber Reinforced Composite Shipboard Applications](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop new affordable non-halogenated polymeric resin materials that have the improved structural, thermal and Fire, Smoke, and Toxicity (FST) behavior when compared to conventional brominated vinyl esters (Derakane 510A) which are currently in use by the U.S. Navy in topside structures. Special emphasis will be given to the structural and thermal characteristics of the polymeric sy ...

STTR Navy

6. [N11A-T006: Advanced Thin-film Battery Development](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop novel light weight high efficiency thin-film batteries for use in Unmanned Autonomous Vehicles (UAVs), remote sensors, expendables, energy harvesting and in"wearable"flexible electronics. DESCRIPTION: Energy harvesting is important for distributed networks used in remote sensors, perimeter protection, intruder alerts and for widespread monitoring of bio-threats. Most energy ...

STTR Navy

7. [PA-10-175: Advanced Tools and Technologies for Deep Brain Stimulation](#)

Release Date: 04-27-2010Open Date: 07-05-2010Due Date: 05-08-2013Close Date: 05-08-2013

1. Research Objectives The clinical utility of deep brain stimulation (DBS) for the treatment of the debilitating symptoms of motor disorders, including Parkinson's disease and essential tremor has been established. In addition, DBS may offer relief of symptoms in other disorders such as Dystonia, Tourette's Syndrome and Epilepsy. DBS is considered a treatment option for patie ...

STTR Department of Health and Human Services

8. [A11a-T024: Advanced Wavelength Tuners for Chem-Bio Detection Lasers](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: We are seeking advanced, robust wavelength tuners for laser transmitters operating in the 3-5 um and 8-12 um bands for application to point and standoff detection of chemical and biological agents. DESCRIPTION: A variety of wavelength agile laser transmitters are contemplated for advanced point and standoff sensors to probe for chemical and biological agents. These include most not ...

STTR Army

[9. T2.02: Aeroservoelastic \(ASE\) Control, Modeling, Simulation, and Optimization](#)

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date:
09-08-2011

This subtopic addresses advanced control-oriented techniques for aeroservoelastic (ASE) flight systems including distributed network sensor systems, modeling, simulation, optimization and stabilization methods of ASE systems to actively and/or adaptively control wing geometry, vibration, gust/turbulence response, static/dynamic loads, and other aeroelastic (AE) objectives for enhanced aeroservoelastic performance and stability characteristics. Technical elements for these proposals may include:

STTR National Aeronautics and Space Administration

[10. T6.01: Affordable and Sustainable Crew Support and Protection](#)

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date:
09-08-2011

This STTR sub-topic seeks to advance the state-of-the-art in spacecraft life support, thermal control, extra-vehicular activity and habitation systems, leading toward the ability to sustain a crew in space for years with minimal supplies launched from Earth. Atmosphere, water and waste all need to be regenerated with highly reliable systems to reduce or eliminate the need to launch parts and supplies to maintain the systems. The crew must also be protected from the dangers of the deep space environment. During extra-vehicular activity, this poses additional difficulties.

STTR National Aeronautics and Space Administration

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